

REPORTS, RETURNS AND STATISTICS
OF THE
INLAND REVENUES

OF THE
DOMINION OF CANADA

FOR THE YEAR ENDED MARCH 31

1913

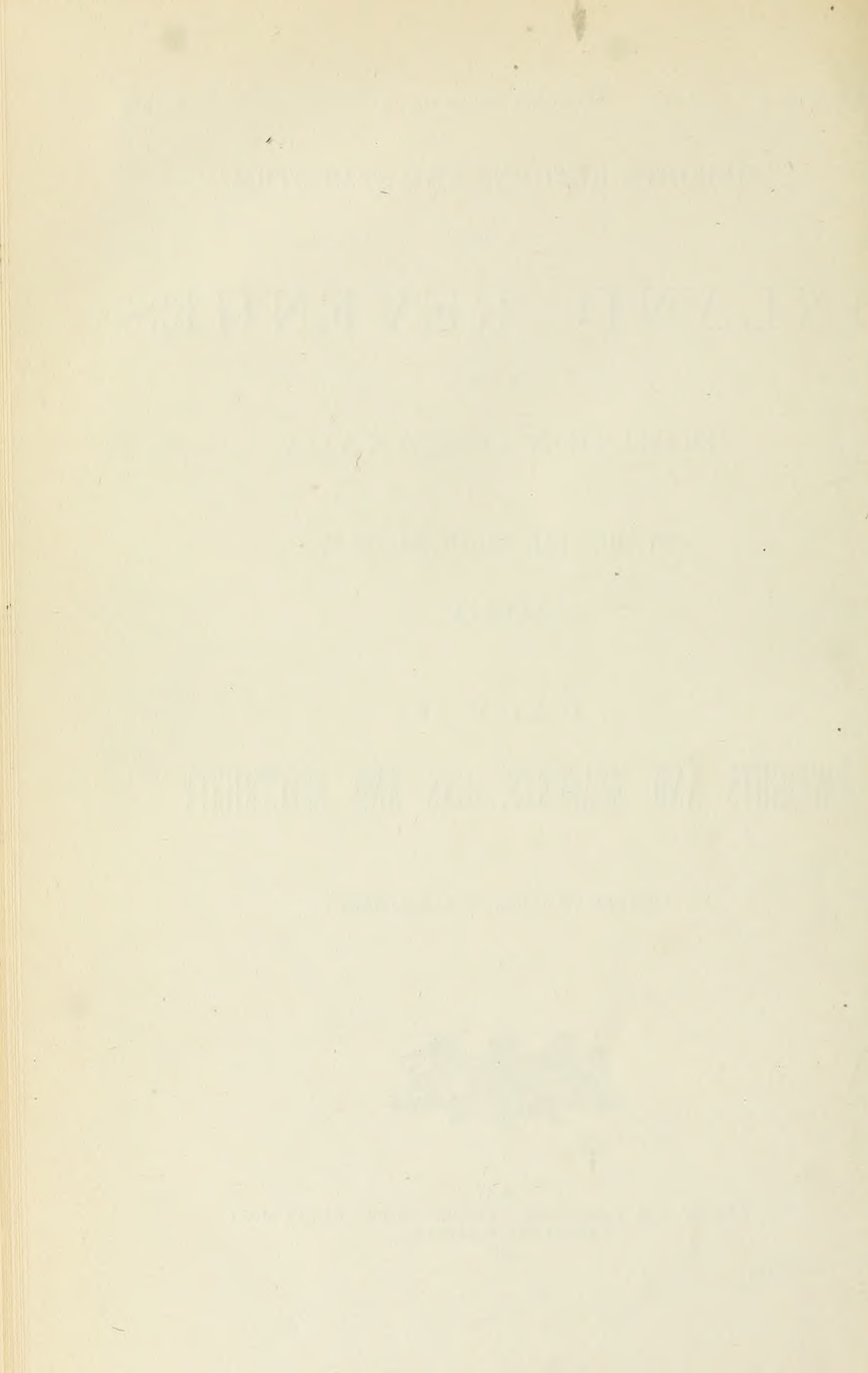
PART II

WEIGHTS AND MEASURES, GAS AND ELECTRICITY

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OTTAWA
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EXCELLENT MAJESTY
1913



REPORT
OF THE
DEPUTY MINISTER OF INLAND REVENUE
ON THE
INSPECTION OF WEIGHTS AND MEASURES, GAS AND ELECTRICITY

To the Honourable
The Minister of Inland Revenue.

SIR,—I have the honour to submit herewith my annual report on the inspection of weights and measures, gas and electricity, with the usual statements in connection therewith for the fiscal year ended March 31, 1913.

1. The total revenue collected during the year for the inspection of weights and measures, was \$100,696.52 as against \$107,408.60 collected during the twelve months ended March 31, 1912.


2. The total expenditure was \$131,344.71, as against \$124,256.83 expended during the year ended March 31, 1912.

3. Appendix 'A' gives a summary statement of the receipts and expenditures of each inspection division.

4. In Appendices 'B,' 'C' and 'D' will be found a detailed statement of weights, measures and weighing machines presented for verification, verified and rejected during the year. The number of all descriptions may be summarily stated as follows :—

	Presented.	Verified.	Rejected.	Percentage of Rejections.
Weights, Dominion	61,502	61,165	337	·546
Measures of capacity, Dominion	144,293	144,258	35	·003
Lineal measures	10,880	10,831	49	·453
Balances, equal arms	12,204	11,994	210	1·720
" steelyards	5,044	4,981	63	1·248
" platform scales	44,905	43,760	1,145	2·551
Miscellaneous weights	2,461	2,456	5	·203
" measures of capacity	11,365	11,045	320	2·815
" balances	66,414	66,184	230	·346

4 GEORGE V., A. 1914

5. The decrease in revenue shown in par. 1, above, is mainly due to the fact that the past period included nine months of the annual inspection work for 1912, and therefore comparison should not be made with the biennial fiscal year ending March 31, 1912, but with the previous annual inspection period ending March 31, 1911, the revenue for which was \$98,661.80, showing an increase of revenue for the past annual period of \$2,024.72. 

6. The increase in expenditure is due to the fact that practically the same immense territory has to be journeyed to perform annual inspection as biennial inspection, whilst expenses for the cartage and transportation of inspectors' standards and equipment is more largely borne by the Service.

An additional item of expense to the extent of \$2,432.43 was also incurred by the purchase of new standards, mentioned below, for the equipment of the W. & M. Standards Branch.

7. I might here remark that there is throughout the Dominion, amongst the public, scale manufacturers, retail and wholesale merchants, and elevator interests, an intense and growing demand for more efficient and more frequent W. & M. Inspection, and also for considerable reduction in the inspection fees collected. It would seem then that the time has come when the deficit incurred by the W. & M. Service must be accepted as an administrative obligation, and as one that must necessarily increase and be provided for in the interests of the stability and integrity of Canadian commerce.

8. The following is a list of the standards, balances and weights above referred to provided, as in the case of the standards of 1874, from L. Oertling, of London, England.

Standard Weights—

One set Troy Standards, 500 ozs. down to .001 oz.

One set Avoirdupois Standards, 50 lbs. down to $\frac{1}{2}$ dram.

One set Metric Standards, 20 kgs. down to .05 mg.

Balances—

One Bullion Balance to carry 1,000 ozs. Troy in each pan, and sensitive to .1 grain.

One Bullion Balance to carry 500 ozs. Troy in each pan, and sensitive to .1 grain.

One Bullion Balance to carry 200 ozs. Troy in each pan, and sensitive to .01 grain.

One Assay Balance to carry 2 grammes in each pan, and sensitive to .005 mg., or the .000077 grain.

These standards are stamped by the Board of Trade, England, and accompanied with certificates of verification, showing in the case of each weight its exact weight in vacuo to the fourth and fifth decimal of the grain, and have been procured as the primary reference standards of the department, and to supplement those which have been in use since 1874.

The fine assay balance has been procured in order that the Standards Branch may be in a position to verify with the requisite accuracy, the assay standards used in the annual trial of the Pyx at the Canadian Royal Mint.

Each of the above standards have been designated by the letter "C."

INSPECTION OF GAS.

9. The total revenue collected during the twelve months ended March 31, 1913, for the inspection of gas and gas meters, was \$62,747.40 as compared with \$51,356.25 collected during the year ended March 31, 1912.

10. The total expenses were \$50,253.49 as against \$45,232.47 expended during the year ended March 31, 1912.

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11. Appendix 'E' gives a summary statement of the receipts and expenditures of each gas inspection district.

12. A statement of the illuminating power and purity of gas inspected during the year will be found in Appendix 'F.'

13. The illuminating power, where inspection has been made, has been as follows:—

Places.	Number of tests made.	Number of times below Standard	Places.	Number of tests made.	Number of times below Standard.
Barrie	12	34	St. Catharines.....	12	
Belleville	10		St. Thomas.....	24	
Berlin.....	12		Toronto...	106	
Brockville.....	14		Windsor		
Cobourg	12		Woodstock.....	12	
Cornwall.....	18		Montreal.....	104	
Deseronto	0		Quebec.....	12	
Guelph.....	12		Sherbrooke	6	
Hamilton	15		St. Hyacinthe.....	12	
Ingersol.....	12		Fredericton.....		
Kingston.....	12		Moncton	4	
Listowel.....	12		St. John, N.B.....	10	
London	104		Halifax	12	
Napanee	5		Yarmouth	12	
Ottawa...	104		Charlottetown.	15	
Owen Sound.....	12		Winnipeg	101	44
Peterborough.....	24		Nanaimo.....	12	
Port Hope	11		New Westminster.....	12	
Sarnia			Vancouver	52	17
Stratford	12		Victoria.....	8	4

The revenue derived from the inspection of electricity was as follows:—

Fees for inspection of meters, &c.....	\$74,833 80
The expenses of inspection (annual).....	\$33,767 75
Expended on standard instruments, and maintenance of equipment.....	8,945 13
	<u>42,712 88</u>
Leaving a net revenue of	<u>\$32,120 92</u>

Since the year 1896-97 the two services of gas and electricity inspection, which are conducted largely by the same staff of officers, have reached that point at which they have ceased to be a burden upon the general taxpayer, as shown below :—

Years.	Gas and Electricity.	
	Revenue.	Expenditure.
	\$ cts.	\$ cts.
*1899-1900.....	35,523 50	26,424 48
1900-01.....	37,536 57	28,247 20
1901-02.....	43,663 05	33,328 48
1902-03.....	49,054 55	36,006 47
1903-04.....	50,218 75	33,426 15
1904-05.....	62,561 37	34,774 02
1905-06.....	76,539 00	38,917 48
1906-07.....	57,868 18	30,793 84
1907-08.....	86,552 20	48,831 75
1908-09.....	92,450 21	54,018 71
1909-10.....	100,647 20	55,514 14
1910-11.....	112,150 25	63,385 03
1911-12.....	117,917 45	80,537 87
1912-13.....	138,090 95	93,000 82

* Exclusive of cost of standard instruments.

It will be observed that the reduction of fees in connection with the Gas and Electricity Inspection service made in 1909 and 1911 (referred to in a previous report) has not brought about an equilibrium between receipts and expenditure. Another year should pass before a decision is reached respecting any further reduction. The reduced fees (1911) have only applied to a portion of the fiscal year 1911-12.

The kindred service of weights and measures inspection, it will be observed, earned about 77 per cent of its actual cost, the expenditure as already stated having been \$131,344.71 against a revenue of \$100,696.52.

I have the honour to be, sir,
Your obedient servant,

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX A.

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Inspection Divisions.	Inspectors and Assistants.	Expenditures.							Revenues.
		Salaries.	Special Assist- ance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Totals.	
		\$ cts.	\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Belleville...	Johnson, Wm Diamond, F. D. ... Howson, G. H. Kylie, R. Slattery, Thos.	3,322 86	65 00	..	441 25	1,120 87	404 88	5,354 86	2,365 90
Hamilton...	Sealey, J. C. Clegg, Jos. Fitzgerald, E. W. Laidman, R. H. ... Robins, S. W. Wheatley, A. E. ... Brick, J. H.	6,741 29	200 00	..	.....	1,843 79	140 72	8,925 80	10,162 99
Kingston...	Gallagher, Thos. ... Johnston, C. W. ... McLean, C. E. Davis, J. M.	2,199 90	150 00	..	.....	417 25	48 30	2,815 45	1,519 05
London...	Butler, F. H. Hughes, R. A. Coughlin, D. Liddle, D. Thomas, J. S. Robinson, J. T. Cada, T. A.	4,504 06	611 07	..	.....	2,083 63	355 03	7,553 79	10,251 85
Ottawa....	Hinchey, E. H. ... Breen, J. Church, G. C. Findley, Robt. ... Hodgins, H. A. ... Dugal, G. A. Hodgins, Gerald. . Laliberté, Geo. Sheppard, C. F. ... Robinson, A. N. . Trumpour, T.	4,260 72	1,685 08	..	.....	1,819 19	105 68	7,870 67	5,084 37
Toronto....	McConvey, J. J. ... Cruikshank, J. L. . Milligan, R. J. ... Murdoch, Jas. Smith, J. C. Wright, R. J. Fallowdown, W. A. McEachern, C. A. . Stokes, R. A.	6,866 44	709 99	..	.....	2,084 77	148 69	9,809 89	12,807 83
	Ontario.....	27,895 27	3,421 14	..	441 25	9,369 50	1,203 30	42,330 46	42,191 99

APPENDIXA—Continued.

STATEMENT of Weights and Measures, Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Inspection Divisions.	Inspectors and Assistants.	Expenditures.							Revenues.
		Salaries.	Special Assist- ance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Totals.	
		\$ cts.	cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Montreal. . .	Archambault, J. E. } D'Aoust, J. A. Boudet, E. Beaulac, J. H. Galipeau, J. B. N. } Hébert, J. A. P. ... Macbeth, W. Wilson, J. C. Bélanger, S. F. ... Van Antwerp, C. D. } Chapleau, Raoul . . }	8,420 70	650 00	..	1,350 00	2,433 49	245 68	13,099 87	13,570 60
Quebec.	Roy, Chs. E. Bourget, L. J. Caldwell, A. B. Lebel, J. A. W. . . Gauvin, B. Knowles, Chs. Préfontaine, F. H. } Beauchamp, L. E. .. Duchesne, Naz. Miles, G. Desjardins, H. Lortie, A. Bernatchez, Abel. . } Dionne, L. A. }	7,099 72	2,604 16	..	366 67	2,326 83	214 53	12,611 91	5,076 30
Sherbrooke..	Fournier, L. A. Delorme, Ovide. . } Van Antwerp, C. B. } Lemire, J. N. }	1,266 65	1,246 41	..	325 00	951 37	248 14	4,037 57	6,034 30
St. Hyacin- the.	Morin, J. P. Dessert, V. Desmarais, A. Fournier, L. A. Richer, A. Tomlinson, W. M. } Boisvert, Fortunat. } Van Antwerp, C. B. } Lemire, J. N. Champagne, J. A. . }	3,233 16	1,188 20	..	.....	1,286 01	115 90	5,823 27	3,966 40
Three Rivers. .	Lessard, Albert . . } Bolduc, E. }	1,665 47	.....	..	.....	192 88	53 29	1,911 64	481 10
	Quebec.	21,685 70	5,688 77	..	2,041 67	7,190 58	877 54	37,484 26	29,128 70
St. John, N.B.	Barry, James. Leblanc, J. O. White, H. E. Limerick, A. K. Bernier, J. A. }	3,399 82	800 00	974 68	46 80	5,221 30	3,840 23

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APPENDIX A—Continued.

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Inspection Divisions.	Inspectors and Assistants.	Expenditures.							Revenues.
		Salaries.	Special Assist- ance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Totals.	
		\$ cts.	\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Halifax, N.S.	O'Brien, Wm..... Sargent, F. H..... Waugh, R..... Dillon, D. H.....	2,199 88	1,059 92 ..		507 36	769 64	124 36	4,661 16	1,480 67
Pictou.....	Dustan, W. M. Chisholm, J. J..... Campbell, D. A.... Laurence, G. C.	2,100 00	1,218 00 ..			945 90	190 73	4,454 63	2,141 84
	Nova Scotia	4,299 88	2,277 92 ..		507 36	1,715 54	315 09	9,115 79	3,622 51
Charlotte- town, P.E.I.	Davy, E..... Hughes, H.	1,858 25	60 00 ..			251 01	28 63	2,197 89	542 68
Winnipeg, Man.	Walton, G..... Gilby, W. F..... Grant, C. D..... McKay, R..... McLean, D. G..... Spicer, H..... Landry, Thos. Kerr, John..... Bowen, A. A.	5,416 43	593 90 ..			2,556 15	291 89	8,858 37	10,905 39
Saskatoon, Sask.	Johnston, C. W .. Hayward, A. C.... Mackinnon, J. W.. Illingsworth, H.... Welsh, W. R. McIntosh, W.....	1,800 06	1,238 74 ..			1,448 33	532 35	5,019 48	2,689 10
Calgary, Alta.....	Costello, J. W..... McLeod, N. T.....	2,545 75	343 00 ..			1,904 70	66 86	4,860 31	3,700 22
Nelson.....	Parker, Thos..... Sutherland, J. W..	1,249 92	173 47 ..		15 00	1,292 40	152 62	2,883 41	1,250 95
Vancouver..	Dutton, A. H..... Shaw, J..... Harris, W. H.	3,166 52	12 00 75			200 05	455 70	3,835 02	2,798 25
	British Columbia..	4,416 44	185 47 75		15 00	1,492 45	608 32	6,718 43	4,049 20
Dawson, Yukon....	McDonald, J. F.	1,000 00				24 00	8 25	1,032 25	26 50

APPENDIX A—*Concluded.*

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year
ended March 31, 1913.

RECAPITULATION.

	Expenditures.							Revenues.
	Salaries.	Special Assist- ance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Total.	
	\$ cts.	\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Ontario.....	27,895 27	3,421 14	..	441 25	9,369 50	1,203 30	42,330 46	42,191 99
Quebec.....	21,685 70	5,688 77	..	2,041 67	7,190 58	877 54	37,484 26	29,128 70
New Brunswick.....	3,399 82	800 00	..	.....	974 68	46 80	5,221 30	3,840 23
Nova Scotia.....	4,299 88	2,277 92	..	507 36	1,715 54	315 09	9,115 79	3,622 51
Prince Edward Island.	1,858 25	60 00	..	.....	251 01	28 63	2,197 89	542 68
Manitoba.....	5,416 43	593 90	..	.....	2,556 15	291 89	8,858 37	10,905 39
Saskatchewan.....	1,800 06	1,238 74	..	.....	1,448 33	532 35	5,019 48	2,689 10
Alberta.....	2,545 75	343 00	..	.....	1,904 70	66 86	4,860 31	3,700 22
British Columbia.....	4,416 44	185 47	75	15 00	1,492 45	608 32	6,718 43	4,049 20
Yukon.....	1,000 00	.....	..	.....	24 00	8 25	1,032 25	26 50
Chief Inspector.....	.....	46 80	..	.....	76 35	47 48	170 63	.....
General Contingencies.....	.....	.....	..	.....	.....	4,936 82	4,936 82	.....
Printing.....	.....	.....	..	.....	.....	1,200 70	1,200 70	.....
Stationery.....	.....	.....	..	.....	.....	549 65	549 65	.....
Provisional Allowance.....	.....	.....	..	.....	.....	1,432 37	1,432 37	.....
International Bureau of Weights & Measures.....	.....	.....	..	.....	.....	216 00	216 00	.....
Grand Totals..	74,317 60	14,655 74	75	3,005 28	27,003 29	12,362 05	131,344 71	100,696 52

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

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APPENDIX B

APPENDIX

RETURN of Weights and Measures inspected during the Fiscal Year ended March 31,
each Division, for each Province,

Inspection Office.	Weights.									Measures of Capacity.					
	Dominion.			Troy.		Mis- cellaneous.			Dominion.			Miscellaneous.			
	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	
Belleville	875	852	23	..	..	..	..	..	501	501	1	56	56	..
Hamilton	9,303	9,300	3	8	8	38	38	..	7,786	7,785	1	244	233	11	
Kingston	503	508	..	..	..	3	3	..	3,357	3,357	..	14	14	..
London	2,077	2,073	4	..	..	406	406	..	46,879	46,878	1	25	24	1
Ottawa	7,033	7,019	14	..	..	2	3	..	1,544	1,528	16	229	227	2
Toronto	5,364	5,326	38	18	18	4	4	..	29,406	29,406	..	2,939	2,936	3	
Ontario.....	25,160	25,078	82	26	26	453	453	..	89,473	89,454	19	3,507	3,490	17	
Montreal	9,889	9,832	57	118	118	175	175	..	30,461	30,461	..	1,206	1,189	17	
Quebec	6,083	5,922	161	..	..	1,001	996	5	7,373	7,364	9	134	134	..
Sherbrooke	4,948	4,948	..	12	12	306	306	..	837	837	..	43	43	..	
St. Hyacinthe... .	3,532	3,532	..	..	..	237	237	..	2,366	2,365	1	119	114	5
Three Rivers....	724	724	..	..	..	1	1	..	564	564	..	12	12	..
Quebec.....	25,176	24,958	218	130	130	1,720	1,715	5	41,601	41,591	10	1,514	1,492	22	
St. John, N.B... .	2,772	2,772	..	..	..	31	31	..	5,624	5,624	..	4,715	4,715	..
Halifax	1,188	1,188	..	..	..	21	21	..	730	730	..	220	220	..
Pictou	1,564	1,564	..	..	..	17	17	..	1,202	1,202	..	235	235	..
Nova Scotia... .	2,752	2,752	..	..	..	38	38	..	1,932	1,932	..	455	455	..
Charlottetown, P.E.I.	454	454	..	..	..	..	..	..	117	117	..	30	30	..
Winnipeg, Man.. .	3,570	3,533	37	..	..	50	50	..	5,175	5,169	6	974	693	281
Saskatoon, Sask..	172	172	..	..	..	1	1	..	44	44	..	17	17	..
Calgary, Alta....	312	312	..	..	..	..	..	..	21	21	..	122	122	..
Nelson	454	454	..	..	..	1	1	..	243	243	..	17	17	..
Vancouver	680	680	..	..	..	11	11	..	63	63	..	14	14	..
Br. Columbia.. .	1,134	1,134	..	..	..	12	12	..	306	306	..	31	31	..
Dawson, Yukon.. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Grand total.. .	61,502	61,165	337	156	156	2,305	2,300	5	144,293	144,258	35	11,365	11,045	320	

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B.

1913, showing the Total Number brought for Verification, Verified and Rejected for and for the whole Dominion.

Measures of Capacity		Weights, &c.											
		Equal Armed.			Steelyards.			Platform Scales.			Miscellaneous.		
Brought for Verification.	Verified.	Rejected.	Verified.	Rejected.	Verified.	Rejected.	Verified.	Rejected.	Verified.	Rejected.	Verified.	Rejected.	Verified.
76	76	1	27	27	45	45	1,091	1,068	23	592	591	1	1
808	812	1,740	1,841	1,619	1,587	32	5,105	5,687	3,431	3,427	4	71	71
37	37	91	91	11	14	14	78	728	341	341	1	1	1
3,773	3,773	115	443	4	138	138	3,285	3,206	79	5,213	5,213	14	14
124	417	1,001	1,091	3	20	20	1,854	1,835	19	2,534	2,501	33	33
1,017	1,017	1,328	1,291	427	411	16	4,352	4,352	100	10,471	10,455	16	16
6,211	6,226	19	5,117	4,964	2,263	2,210	17,620	16,876	744	22,506	22,461	45	45
2,316	2,316	2,062	2,062	1,197	1,188	9	5,135	4,986	149	11,711	11,682	29	29
1,122	1,096	24	1,003	275	275	1	2,271	2,271	861	861	1	1	1
129	129	1,003	1,003	579	579	1	3,109	3,109	40	160	159	1	1
278	278	620	620	271	260	11	264	264	40	41	41	1	1
124	124	124	124	21	21	1	264	264	8	41	41	1	1
3,908	3,908	4,825	4,825	1,340	2,330	1	16,326	16,326	1,100	13,082	13,082	33	33
12	12	604	604	30	29	1	1,914	1,901	13	917	917	1	1
1	1	300	300	47	18	18	1	1	1	446	445	1	1
72	72	300	300	18	18	1	1	1	1	1	1	1	1
73	73	608	608	1	1	1	1,584	1,559	25	835	834	1	1
		97	97	19	19	1	363	363	352	352	1	1	1
126	126	636	608	28	1	1	3,378	3,270	108	21,396	21,396	49	49
		11	11	1	1	1	1	1	11	318	315	3	3
1	1	49	49	1	74	73	1,146	1,138	8	2,255	2,248	7	7
115	115	167	167	58	90	1	907	907	276	269	269	1	1
115	115	251	251	148	148	1	1,474	1,474	4,574	4,573	1	1	1
				6	6	1	7	7					
10,880	10,831	49	12,204	2,210	5,044	4,981	44,905	43,760	1,145	65,414	65,185	230	230

WM. THOMSON & CO.

APPENDIX

RETURN showing the Number of Dominion Weights and Lineal Measures of each Fiscal Year ended

Inspection Division.	Dominion														
	Avoir														
	60 lbs.	50 lbs.	30 lbs.	25 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville						12		21	80	106	205	194	62	58	47
Hamilton		2,284	27		18	33		303	271	1,323	2,180	1,489	304	275	368
Kingston		2	1		1	18		29	36	53	106	102	45	38	33
London						19		59	99	190	438	385	214	201	181
Ottawa		33	3		2	4		265	39	385	540	327	850	819	796
Toronto		96	44			128		400	441	352	1,556	1,153	266	237	246
Ontario		2,415	75		21	214		1,077	916	2,409	5,025	3,650	1,741	1,628	1,671
Montreal		133	20		25	176		684	484	1,006	1,990	1,755	1,050	890	730
Quebec	2	21	6		10	45		365	490	591	927	879	823	749	633
Sherbrooke		324		2	2	11		74	492	65	1,331	1,192	500	292	239
St. Hyacinthe						30		200	227	697	896	521	328	229	261
Three Rivers						5		40	28	102	136	118	94	82	56
Quebec	2	478	26	2	37	267		1,363	1,721	2,461	5,280	4,465	2,795	2,242	1,919
St. John, N.B.					20	25		142	223	359	756	619	239	167	113
Halifax						4		37	89	123	372	270	108	68	60
Pictou		283				21		49	62	227	364	304	59	52	46
Nova Scotia		283				25		86	151	350	736	574	167	120	106
Charlottetown, P.E.I.						2		17	31	46	142	108	29	23	21
Winnipeg, Man.		269	1	3	68	73		144	219	392	726	557	189	187	178
Saskatoon, Sask.		21	3		8	16		7	45	10	26	18	3	3	3
Calgary, Alberta		12	1	2	2	18		32	35	29	86	62	9	6	6
Nelson								4	15	23	108	90	42	37	38
Vancouver		3	8		5	19		7	23	55	162	151	47	43	39
British Columbia		3	8		5	19		11	38	78	270	241	89	80	77
Dawson, Yukon															
Totals	2	3,481	114	7		166		2,879	3,429	6,134	13,047	10,294	5,261	4,456	4,094

SESSIONAL PAPER No. 13

C

Denomination presented for Verification in each Inspection Division during the March 31, 1913.

Weights.							Total Weights.	Lineal Measures.												Total Lineal Measures.
1 oz.	2 oz.	4 oz.	6 oz.	1 lb.	2 lb.	Total		1 in.	2 in.	3 in.	4 in.	5 in.	6 in.	7 in.	8 in.	9 in.	10 in.	11 in.	12 in.	
35	27	17	7	3	1	875	8													76
197	148	57	17			3,889	8	38												38
24	11	8	1			44	8													57
156	95	36	4			2,927	8	206												3,773
772	7	1,424	13		2	2,218	8													424
224	123		1	21	2	3,364	8													1,017
1,408	1,157	1,600		30	5	25,160	8	453												6,245
48	185	9	79			9,889	18	175												2,316
408	97	25	6	4		5,119	12	1,001												1,119
200	167	26			1	3,594	12													135
108	37		1	1		3,532		237												278
40	11	3	3	3		724		1												
1,269	481	155	95	112	6	25,176	100	1,720	....											3,908
6	28	14	2			2,772		41												12
42	11	4				1,188		21												1
44	28	15	8	2		1,794		17	....											72
8	39	19	8			2,732		38	....											73
17	10		3			44														
172	120	107	74	85		3,570		50												526
3	2	2	1	1		172		1												
1	5					312														1
21	28	25		1		151		1												115
37	31	26	20	3	1	680		11												
71	59	51	29	4	1	1,134		42												115
3,097	1,907	1,554	271	21	12	61,502	156	2,305												10,878
																				10,880

WM. HIMSWORTH,
Deputy Minister

APPENDIX

RETURN showing the Number of Dominion Weights and Lineal Measures of each March

Inspection Division.	Dominion														
	Avoir-														
	60 lbs.	50 lbs.	30 lbs.	25 lbs.	20 lbs.	10 lbs.	5 lbs.	3 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	5 ozs.	4 ozs.	2 ozs.
Belleville.					11	20	74	102	198	193	61	57	46		
Hamilton	2,284	27	18	33	303	271	1,323	2,179	1,488	303	275	368			
Kingston.	2	1	1	18	29	36	53	106	102	45	38	33			
London.				19	59	99	189	437	385	214	201	180			
Ottawa	33	3	2	4	265	35	385	537	324	846	819	796			
Toronto	96	44		128	399	138	349	1,544	1,143	261	235	244			
Ontario	2,415	75	21	213	1,075	953	2,401	5,001	3,635	1,733	1,625	1,667			
Montreal,		133	20	25	175	680	479	1,000	1,979	1,745	1,040	885	726		
Quebec.	2	21	6	10	44	355	439	568	900	854	795	733	625		
Sherbrooke.		324	2	2	11	74	492	65	1,331	1,192	500	292	239		
St. Hyacinthe					30	200	227	697	896	521	328	229	261		
Three Rivers.					5	40	28	102	136	118	94	82	76		
Quebec.	2	478	26	2	37	265	1,349	1,695	2,432	5,242	4,430	2,757	2,221	1,907	
St. John, N.B.				20	25	142	223	359	756	619	239	167	113		
Halifax.					4	37	89	123	372	270	108	68	60		
Pictou.		283			21	49	62	227	364	304	59	52	46		
Nova Scotia		283			25	86	151	350	736	574	167	120	106		
Charlottetown, P.E.I.					2	17	31	46	142	108	29	23	21		
Winnipeg, Man.		268	1	3	68	73	144	218	392	724	556	188	163	176	
Saskatoon, Sask.		21	3		8	16	7	45	10	26	18	3	3	3	
Calgary, Alta		12	1	2	2	18	32	35	29	86	62	9	6	6	
Nelson.							1	15	23	108	90	42	37	38	
Vancouver.		3	8		5	19	7	33	55	162	151	47	43	39	
British Columbia		3	8		5	19	11	38	78	270	241	89	80	77	
Dawson, Yukon															
Totals	2	3,480	114	7	161	675	2,833	3,389	5,097	12,983	10,243	5,214	4,408	4,076	

SESSIONAL PAPER No. 13

C—Continued.

Denomination verified in each Inspection Division during the Fiscal Year ended 31, 1913.

Weights							Local Measures										Total number.	Metric Measure
1 lb.	1/2 lb.	1/4 lb.	1/8 lb.	1/16 lb.	1/32 lb.	1/64 lb.	1 lb.	1/2 lb.	1/4 lb.	1/8 lb.	1/16 lb.	1/32 lb.	1/64 lb.	1 lb.	1/2 lb.	1/4 lb.		
1	27	17	7	3	1	1	1	1	1	1	1	1	1	1	1	1	76	
107	115	57	17	3	1	1	1	1	1	1	1	1	1	1	1	1	1	
24	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
772	773	1,494	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
222	122	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1,437	1,156	1,600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
187	185	1	79	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
197	96	25	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
225	161	26	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
108	77	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19	11	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1,267	480	155	112	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
65	28	14	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14	26	15	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
85	30	19	6	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
17	10	5	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
168	125	107	75	8	1	1	1	1	1	1	1	1	1	1	1	1	1	
3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
34	28	25	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
37	31	26	20	3	1	1	1	1	1	1	1	1	1	1	1	1	1	
71	27	51	29	4	1	1	1	1	1	1	1	1	1	1	1	1	1	
3,088	1,904	1,954	271	243	12	1	61,165	156	2,270	10,831								

W. HIMSWORTH.
Deputy Minister.

APPENDIX

RETURN showing the number of Dominion Weights and Lineal Measures of each March

Inspection Division.	Dominion														
	Avoir														
	60 lbs.	50 lbs.	30 lbs.	25 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville						1		1	6	4	7	1	1	1	1
Hamilton											1	1	1		
Kingston															
London										1	1				1
Ottawa									4		3	3	4		
Toronto								1	3	3	12	10	2	2	2
Ontario						1		2	13	8	24	15	8	3	4
Montreal						1		4	5	6	11	10	10	5	4
Quebec						1		10	21	23	27	25	28	16	8
Sherbrooke															
St. Hyacinthe															
Three Rivers															
Quebec						2		14	26	29	38	35	38	21	12
St. John, N.B.															
Halifax															
Pictou															
Nova Scotia															
Charlottetown, P.E.I.															
Winnipeg, Man.		1							1		2	1	1	24	2
Saskatoon, Sask.															
Calgary, Alta.															
Nelson															
Vancouver															
British Columbia															
Dawson, Yukon															
Totals		1				3		16	40	37	64	51	47	48	18

APPENDIX

RETURN showing the Number of Dominion Measures of Capacity, Balances and Inspection Division, during the Fiscal

Inspection Division.	Measures of Capacity.											
	Dominion.											
	Bushel.	$\frac{1}{2}$ bushel.	Peck.	Gallon.	$\frac{1}{2}$ gallon.	Quart.	Pint.	$\frac{1}{2}$ pint.	Gill.	$\frac{1}{4}$ gill.	Total number.	Miscellaneous.
Belleville.....	1	8	28	106	100	163	86	8	1	...	501	56
Hamilton.....	347	224	406	1,142	1,193	2,035	1,891	522	26	...	7,786	244
Kingston.....	17	399	39	548	472	802	691	69	...	...	3,357	14
London.....	891	2,020	1,075	5,867	6,085	13,895	15,021	2,025	...	...	46,879	25
Ottawa.....	...	5	15	255	451	456	287	67	8	...	1,544	229
Toronto.....	...	1,642	1,417	2,897	5,938	7,071	8,565	1,868	8	...	29,406	2,939
Ontario.....	1,256	4,298	3,300	10,815	10,239	24,422	26,541	4,559	43	...	89,473	3,507
Montreal.....	147	551	1,538	4,427	4,751	7,454	8,500	2,961	132	...	30,461	1,206
Quebec.....	1	140	285	1,487	1,924	1,647	1,228	596	60	5	7,373	134
Sherbrooke.....	1	3	5	156	269	247	109	42	5	...	837	43
St. Hyacinthe.....	...	82	162	399	543	605	337	191	46	1	2,366	119
Three Rivers.....	...	31	43	90	126	145	82	31	16	...	564	12
Quebec.....	149	807	2,033	6,559	7,613	10,098	10,256	3,821	259	6	41,601	1,514
St. John, N.B.....	...	294	296	1,115	1,926	1,094	670	229	...	...	5,624	4,715
Halifax.....	1	2	5	153	295	203	65	6	...	...	730	220
Pictou.....	...	3	2	180	471	439	104	3	...	...	1,202	235
Nova Scotia.....	1	5	7	333	766	642	169	9	...	...	1,932	455
Charlottetown, P.E.I.....	...	...	...	7	17	56	35	2	...	...	117	30
Winnipeg, Man.....	24	...	...	972	1,528	1,896	716	25	2	2	5,175	974
Saskatoon, Sask.....	...	...	...	22	9	8	5	...	...	...	44	17
Calgary, Alta.....	1	...	...	8	8	4	...	...	...	...	21	122
Nelson.....	...	...	5	59	95	64	20	...	...	...	243	17
Vancouver.....	...	...	...	18	5	23	15	2	...	...	63	14
British Columbia.....	...	...	5	77	100	87	35	2	...	...	306	31
Dawson, Yukon.....	...	...	...	...	...	...	...	...	...	...	...	...
Totals.....	1,431	5,404	5,641	19,908	26,206	38,307	38,427	8,657	304	8	144,293	11,365

SESSIONAL PAPER No. 13

D.

Weighing Machines of each Denomination presented for Verification in each Year ended March 31, 1913.

Balances.																
With equal arms.			Steely arms with divided arms.					Weights Bridges or Platform Scales.							Miscellaneous.	
5 lbs. and under.	6 lbs. to 50 lbs.	51 lbs. to 100 lbs.	101 lbs. and upwards.	500 lbs. and under.	1,001 lbs. to 1,000 lbs.	1,001 lbs. to 2,000 lbs.	2,001 lbs. and upwards.	2,500 lbs. and under.	2,501 lbs. to 5,000 lbs.	5,001 lbs. to 10,000 lbs.	10,001 lbs. to 15,000 lbs.	15,001 lbs. to 20,000 lbs.	20,001 lbs. and upwards.	Total.		
97	108	2		43		12		276	30	352	129	46	229	1,343	592	
747	1,183	1	19	1,596	26	7	2	2,668	165	2,258	296	211	288	9,765	3,431	
32	59			13	1			87	41	399	21	30	172	833	341	
217	226	4		153	4	1		775	67	1,650	192	78	243	3,870	5,227	
745	345	3	1	17	1	1	1	623	129	810	48	54	156	2,968	2,534	
584	673	2	69	395	18	12	2	2,337	114	1,599	262	56	399	6,227	10,471	
2,422	2,594	12	89	2,191	44	25	5	7,134	573	6,839	948	417	1,671	25,000	22,596	
632	1,406	20	4	1,171	11		12	1,489	1,102	1,839	156	153	396	8,394	11,711	
191	733	12	84	264	11			898	719	629	26	29	69	3,566	861	
440	562	1		549	18	5	7	2,295	794	1,085	171	181	193	6,779	342	
182	438			261	5			2,063	527	842	9	98	99	4,581	160	
15	105			29	1			96	57	92	9	5	41	469	41	
1,464	3,244	33	88	2,265	46	8	24	9,715	3,109	5,078	425	456	768	23,731	13,115	
182	422			59				817	415	575	48	28	159	2,548	917	
98	201		1	44	3			401	94	150	15	18	169	1,134	446	
89	220			17	1			592	114	175	17	23	156	1,124	389	
187	421		1	61	4			753	208	325	32	41	225	2,258	835	
22	75			19				105	32	178	17	12	19	479	352	
195	420	5	16	65	29		1	657	68	929	241	329	954	4,109	21,445	
2	3	1	5	1				24		33	30	186	587	872	318	
19	24	2	5	40	13	20	1	224	17	349	60	91	405	1,270	2,255	
40	41	3		31	9	18		239	15	210	12	8	83	709	270	
70	94		3	32	9	49		363	33	396	41	6	68	1,164	4,304	
110	135	3		63	18	67		602	48	606	33	14	151	1,873	4,574	
						2		4	1	6				13	7	
4,603	7,338	56	207	4,765	154	120	31	17,033	4,371	14,919	1,854	1,822	4,910	62,153	66,414	

W. HIMSWORTH,
Deputy Minister.

APPENDIX

RETURN showing the Number of Dominion Measures of Capacity, Balances and during the Fiscal Year ended

Measures of Capacity.

Inspection Division.	Dominion.										Total Number.	Miscellaneous.
	Bushel.	1/2 Bushel.	Peck.	Gallon.	1/2 Gallon.	Quart.	Pint.	1/2 Pint.	Gill.	1/2 Gall.		
Belleville	1	8	27	106	100	163	86	8	1	....	500	56
Hamilton	347	224	406	1,141	1,193	2,035	1,891	522	26	....	7,785	233
Kingston	17	399	359	548	472	802	691	69	....	....	3,357	14
London	891	2,019	1,075	5,867	6,085	13,895	15,021	2,025	....	....	46,878	24
Ottawa .....	....	5	15	253	447	452	283	66	7	....	1,528	227
Toronto .....	....	1,642	1,417	2,897	5,938	7,071	8,565	1,868	8	....	29,406	2,936
Ontario	1,256	4,297	3,299	10,812	14,235	24,418	26,537	4,558	12	..	89,454	3,490
Montreal	147	551	1,533	4,427	4,751	7,454	8,500	2,961	132	....	30,461	1,189
Quebec	1	149	285	1,486	1,920	1,644	1,227	596	60	5	7,364	134
Sherbrooke	1	3	5	156	269	247	109	42	5	....	837	43
St. Hyacinthe .....	....	82	162	399	543	604	337	191	46	1	2,365	114
Three Rivers .....	....	31	43	90	126	145	82	31	16	....	564	12
Quebec	149	807	2,033	6,558	7,609	10,094	10,255	3,821	259	6	41,591	1,492
St. John, N.B. ....	....	294	296	1,115	1,926	1,094	670	229	....	....	5,624	4,715
Halifax	1	2	5	153	295	208	65	6	....	....	730	220
Pictou .....	....	3	2	180	471	439	104	3	....	....	1,202	235
Nova Scotia	1	5	7	333	766	642	169	9	....	....	1,932	455
Charlottetown, P.E.I. ....	....	....	....	7	17	56	35	2	....	....	117	30
Winnipeg, Man.	24	....	....	971	1,526	1,894	715	35	2	2	5,169	693
Saskatoon, Sask .....	....	....	....	22	9	8	5	....	....	....	44	17
Calgary, Alta	1	....	....	8	8	4	....	....	....	....	21	122
Nelson .....	....	....	5	59	15	64	20	....	....	....	243	17
Vancouver .....	....	....	....	18	5	23	15	2	....	....	63	14
British Columbia ....	....	....	5	77	100	87	35	2	....	....	396	31
Dawson, Yukon .....	....	....	....	....	....	....	....	....	....	....	....	....
Totals ..	1,431	5,403	5,640	19,903	26,190	38,297	38,421	8,656	323	8	144,258	11,245

SESSIONAL PAPER No. 13

D—Continued.

Weighing Machines of each Denomination Verified, in each Inspection Division
March 31, 1913.

Balances.

W.C. Field Area.				Sault Ste. Marie District Area.				Average Weights in Platinum Series.									
2 lbs. and under.	5 lbs. to 50 lbs.	50 lbs. to 100 lbs.	100 lbs. and over.	50 lbs. and under.	100 lbs. to 1,000 lbs.	1,000 lbs. to 2,000 lbs.	2,000 lbs. and over.	2 lbs. and under.	5 lbs. to 50 lbs.	50 lbs. to 100 lbs.	100 lbs. to 1,000 lbs.	1,000 lbs. to 2,000 lbs.	2,000 lbs. and over.	1 lb.	2 lbs.	5 lbs.	10 lbs.
97	108	2		15		2	1	274	57	343	126	45	223	1,320	591		
721	1,100	1	19	1,559	26	7	1	2,884	100	2,021	255	202	190	9,115	4,600		
32	10			13	1			8	4	300	21	80	152	800	341		
214	225	4		133	4	1	1	700	64	1,000	180	51	518	3,787	5,213		
743	344	3	1	17	1	1	1	961	108	799	46	52	149	2,946	2,501		
506	600	1	60	381	17	12	2	2,309	107	1,336	248	54	208	6,000	10,455		
2,373	1,491	11	89	2,146	43	23	4	6,524	300	6,523	881	434	1,530	24,056	22,461		
97	1,389	20	4	1,300	11	3	12	1,461	1,000	1,000	100	10	371	8,214	11,682		
100	700	11	84	1,000	11			801	1	1,000	26	29	60	1,000	100		
110	100	1		1	10	5	1	1,000	700	1,000	171	181	100	1,000	100		
180	408			100	1			1,000	100	800	63	6	97	1,000	150		
19	100			100	1			100	100	80	8	8	10	101	100		
1,440	3,223	32	4	2,252	40	8	14	4,000	3,061	4,991	415	100	732	10,000	10,000		
100	100			100				100	314	100	48	100	100	1,000	100		
100	100		1	100	1			100	91	100	110	16	103	4,108	445		
100	100			100	1			100	114	175	100	23	100	1,124	100		
100	100		1	101	4			100	205	315	31	39	219	2,232	834		
100	100			100				100	100	175	17	12	19	100	100		
100	100	5	10	100	10		1	643	67	896	234	516	914	3,972	21,396		
100	100	1		100				100	100	100	30	181	100	100	100		
100	100	2		100	13	20		224	100	347	100	100	101	1,200	100		
100	100	3		100	10	10		100	100	100	100	100	100	1,000	1,000		
70	100			100	9	10		100	100	100	100	100	100	1,000	1,000		
100	100	3		100	18	10		100	48	100	53	14	151	1,873	1,000		
					2	4		1	6								7
4,335	7,498	74	207	4,671	155	118	34	10,810	4,282	14,461	1,700	1,767	1,001	60,702	66,181		

W. H. HEMSWORTH

Deputy Master.

APPENDIX

RETURN showing the Number of Dominion Measures of Capacity, Balances and during the Fiscal Year ended

Inspection Division	Measures of Capacity.										Total number	Miscellaneous.
	Dominion											
	Bushel.	½ bushel.	Peck.	Gallon.	½ gallon.	Quart.	Pint.	½ pint.	Gill.	½ gill.		
Belleville			1								1	
Hamilton			1					.....		1	11
Kingston												
London		1									1	1
Ottawa				1	½	½	½	1	1		1	2
Toronto												3
Quebec		1	1	3	½	½	½	1	1	.....	1	17
Montreal												17
Quebec				1	½	½	1					
Shedden												
St. Hyacinthe					1					1	5
Three Rivers												
Quebec		..		1	½	½	1			.....	1	22
St. John, N.B.											
Halifax												
Victoria												
New Scotia												
Charlottetown, P.E.I.											
Winnipeg, Man.				1	½	½	1					21
Saskatoon, Sask.												
Calgary, Alta.												
Edmonton												
Vancouver												
British Columbia												
Idaho, Yuma....												
Totals		1	1	4	1½	1½	3	1	1		30	50

—

Country	1950	1960	1970	1980	1990	2000	2010	2020	2030	2040	2050
Japan	7	8	10	12	14	16	18	20	22	24	26
Germany	10	11	12	13	14	15	16	17	18	19	20
France	11	12	13	14	15	16	17	18	19	20	21
Italy	12	13	14	15	16	17	18	19	20	21	22
Spain	13	14	15	16	17	18	19	20	21	22	23
Sweden	14	15	16	17	18	19	20	21	22	23	24
United Kingdom	15	16	17	18	19	20	21	22	23	24	25
United States	16	17	18	19	20	21	22	23	24	25	26
Canada	17	18	19	20	21	22	23	24	25	26	27
South Korea	18	19	20	21	22	23	24	25	26	27	28
China	19	20	21	22	23	24	25	26	27	28	29
India	20	21	22	23	24	25	26	27	28	29	30
Brazil	21	22	23	24	25	26	27	28	29	30	31
South Africa	22	23	24	25	26	27	28	29	30	31	32
Indonesia	23	24	25	26	27	28	29	30	31	32	33
Nigeria	24	25	26	27	28	29	30	31	32	33	34
Kenya	25	26	27	28	29	30	31	32	33	34	35
Uganda	26	27	28	29	30	31	32	33	34	35	36
Zambia	27	28	29	30	31	32	33	34	35	36	37
Malawi	28	29	30	31	32	33	34	35	36	37	38
Sierra Leone	29	30	31	32	33	34	35	36	37	38	39
Liberia	30	31	32	33	34	35	36	37	38	39	40
Ghana	31	32	33	34	35	36	37	38	39	40	41
Senegal	32	33	34	35	36	37	38	39	40	41	42
Guinea	33	34	35	36	37	38	39	40	41	42	43
Sierra Leone	34	35	36	37	38	39	40	41	42	43	44
Liberia	35	36	37	38	39	40	41	42	43	44	45
Ghana	36	37	38	39	40	41	42	43	44	45	46
Senegal	37	38	39	40	41	42	43	44	45	46	47
Guinea	38	39	40	41	42	43	44	45	46	47	48
Sierra Leone	39	40	41	42	43	44	45	46	47	48	49
Liberia	40	41	42	43	44	45	46	47	48	49	50
Ghana	41	42	43	44	45	46	47	48	49	50	51
Senegal	42	43	44	45	46	47	48	49	50	51	52
Guinea	43	44	45	46	47	48	49	50	51	52	53
Sierra Leone	44	45	46	47	48	49	50	51	52	53	54
Liberia	45	46	47	48	49	50	51	52	53	54	55
Ghana	46	47	48	49	50						

[illegible]

W. HEMSWORTH,
Deputy Minister

APPENDIX E.

STATEMENT of Gas Inspection Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Districts.	Inspectors and Assistants.	Expenditures.						Revenues.
		Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Barrie.....	Shanacy, M..	100 00					100 00	136 00
Belleville	Johnson, Wm.	304 15	65 00	181 25	28 50	4 50	583 40	156 20
Berlin.....	Powell, J. B.	200 00	30 00		66 90	4 15	301 65	558 60
Brockville	Fraser, H.							163 20
Cobourg.....	Bickle, J. W.	100 00	24 00		39 25	75 59	238 84	173 60
Cornwall.....								94 20
Guelph.....	Broadfoot, S.	300 00	20 00			18 03	338 03	636 00
	McPhie, W. H.							
Hamilton.	Lutz, H.	2,057 71	176 61	120 00	687 38	179 78	3,221 48	7,638 70
	Murphy, F. C.							
	Dennis, W. A.							470 00
Kingston.....								33 00
Listowel.....	Male, T.	100 00	9 00	58 50			167 50	
London.....	Nash, A. F.	2,499 96	196 98		402 50	41 95	3,141 39	3,821 70
	Skelton, A. R.							
Napanee.....	Johnson, Wm.							18 00
	Roche, H. G.							
Ottawa.	Roche, W. J.	4,106 80	1,025 00	420 00		126 26	5,678 06	1,810 10
	Bond, M. B.							
	Couvrette, A. A.							
Owen Sound.. ..	Graham, W. J.	200 00					200 00	242 20
Peterborough	Rork, T.	150 00					150 00	317 20
Sarnia	Thrasher, W. A.	200 00				3 75	203 75	414 50
Stratford.....	Rennie, Geo.	200 00	12 00			7 95	219 95	157 40
	Stiver, J. L.							
	Pape, J.							
	Reesor, M. W.							
	Renohan, M. J.							
Toronto	Ogden, G. J.	7,969 67	1,437 81			133 51	9,540 99	15,013 20
	Clark, H. M.							
	Johnstone, S. F.							
	Wilson, H. H.							
	Mills, A. E.							
Woodstock.. ..	Orr, H. N.	200 00	12 00			1 00	213 00	319 20
	Ontario	18,688 29	3,008 40	779 75	1,224 53	596 47	24,297 44	32,173 20
	Aubin, A.							
Montreal.... ..	O'Flaherty, M. J. ..	5,216 50	66 00	240 00	50 00	148 63	5,721 13	17,118 70
	Aubin, C.							
	Mann, W.							
	Boucher, A.							
	Brandford, E. B.							
Quebec.....	LeVasseur, N.	1,679 05	60 00	108 33		679 25	2,526 63	685 80
	Béland, E.							
Sherbrooke.....	Simpson, A. F.	349 92					349 92	144 00
	Bowen, F. C.							
St. Hyacinthe.....	Benoit, L. V.	100 00					100 00	102 00
	Quebec	7,345 47	126 00	348 33	50 00	827 88	8,697 68	18,050 50

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest.	Average	No of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Barrie —										
April			17·37	0	1					
May..			17·36	0	1					
June			18·70	0	1					
July			18·93	0	1					
August			20·00	0	1					
September			18·34	0	1					
October			19·38	0	1					
November			19·78	0	1					
December			17·77	0	1					
January			18·68	0	1					
February			17·63	0	1					
March			18·85	0	1					
				0	12					
Belleville—										
April	18·06	17·86	17·96	0	2					
May	18·23	17·27	17·25	0	2					
June										
July	17·79	17·59	17·69	0	2					
August	17·86	16·39	17·63	0	2					
September	18·00	17·10	17·55	0	2					
October										
November										
December										
January										
February										
March										
				0	10					
Deseronto—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Berlin—										
April			19·81	0	1					
May			20·81	0	1					
June			19·22	0	1					
July			14·85	0	1					
August			17·82	0	1					
September			19·45	0	1					
October			17·00	0	1					
November			18·25	0	1					
December			18·89	0	1					
January			15·90	0	1					
February			17·58	0	1					
March			17·65	0	1					
				0	12					

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.			Sulphur per 100 Cubic Feet. Allowance=35 Grains.						
	Highest	Lowest.	Average	No. of times below stan- dard.	No. of tests	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Brockville—										
April			18.50	0	1					
May	18.50	18.30	18.40	0	1					
June			18.00	0	1					
July	18.20	18.00	18.10	0	1					
August.....			23.14	0	1					
September ..	23.14	19.00	21.07	0	1					
October			19.10	0	1					
November ..	22.60	19.40	21.00	0	1					
December ..			19.20	0	1					
January	19.20	19.00	19.10	0	2					
February			19.00	0	1					
March	19.00	18.80	18.90	0	2					
				0	14					
Cobourg—										
April			18.21	0	1					
May			17.56	0	1					
June			17.76	0	1					
July			16.80	0	1					
August			17.98	0	1					
September..			16.49	0	1					
October.....			16.26	0	1					
November ..			18.25	0	1					
December ..			17.05	0	1					
January			17.18	0	1					
February ..			17.21	0	1					
March			17.10	0	1					
				0	12					
Port Hope—										
April			19.48	0	1					
May			19.24	0	1					
June.....			19.52	0	1					
July.....			19.02	0	1					
August.....			18.53	0	1					
September ..			19.08	0	1					
October			18.58	0	1					
November ..			18.41	0	1					
December ..			17.37	0	1					
January			18.49	0	1					
February.....										
March			17.97	0	1					
				0	11					
Cornwall—										
April			18.00	0	1					
May			18.40	0	1					
June	18.80	18.00	18.40	0	3					
July.....			18.00	0	1					
August.....			18.20	0	1					
September.....	19.60	18.00	18.60	0	3					
October.....			18.00	0	1					
November ..			18.30	0	1					
December ..	20.40	18.00	18.90	0	3					
January			19.00	0	1					
February.....										
March	19.00	18.60	18.80	0	2					
				0	18					

4 GEORGE V., A. 1914

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

[illegible]

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the Year ended March 31, 1913—Continued.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest Grains.	Lowest Grains.	Average Grains.	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					14	0	14	
					2	0	2	
					2	0	2	
					2	0	2	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					15	0	15	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					52	0	52	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					52	0	52	

4 GEORGE V., A. 1914

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

[illegible]

APPENDIX

RETURN of the Illuminated Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Candles	Candles	Candles		
Ontario Pipe Line—										
Hamilton —										
April.....										
May										
June										
July										
August.....										
September										
October										
November.....										
December										
January										
February										
March.....										
Sterling Nat. Gas Co.,										
Port Colborne—										
April..										
May										
June.....										
July										
August										
September										
October										
November.....										
December										
January										
February										
March.....										
Kingston—										
April..			18·40	0	1					
May			18·60	0	1					
June.....			18·50	0	1					
July			18·20	0	1					
August.....			18·40	0	1					
September.....			18·70	0	1					
October.....			18·90	0	1					
November.....			19·00	6	1					
December.....			19·60	0	1					
January.....			19·40	0	1					
February			18·90	0	1					
March			18·70	0	1					
				0	12					
Listowel—										
April.			18·04	0	1					
May			20·32	0	1					
June.....			17·64	0	1					
July.....			18·78	0	1					
August.....			19·04	0	1					
September.....			17·82	0	1					
October.....			17·88	0	1					
November.....			16·45	0	1					
December.....			17·08	0	1					
January.....			17·62	0	1					
February.....			17·36	0	1					
March.....			17·36	0	1					
				0	12					

SESSIONAL PAPER No. 13

F.—Continued.

Inspected during the Year ended March 31, 1913—Continued.

Ammonia per 100 Cubic Feet. Allowance 4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					52	0	52	
					0	1	1	
					0	1	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	2	12	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
London —										
April	19·93	16·58	18·30	0	8					
May	18·95	16·04	17·45	0	8					
June	19·65	16·16	17·95	0	10					
July	19·23	16·83	18·26	0	8					
August	19·62	18·17	18·43	0	10					
September	19·30	18·41	18·79	0	8					
October	19·24	18·48	18·71	0	8					
November	19·89	17·79	19·03	0	10					
December	18·84	16·35	17·94	0	8					
January	20·76	17·20	19·25	0	8					
February	20·72	16·78	18·53	0	8					
March	20·28	17·10	18·56	0	10					
				0	104					
Chatham—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Ingersoll--										
April			20·04	0	1					
May			20·29	0	1					
June			18·81	0	1					
July			16·20	0	1					
August			18·84	0	1					
September			16·45	0	1					
October			17·71	0	1					
November			20·39	0	1					
December			21·70	0	1					
January			17·60	0	1					
February			17·84	0	1					
March			19·03	0	1					
				0	12					
St. Thomas —										
April	16·82	16·80	16·81	0	2					
May	20·43	19·03	19·73	0	2					
June	20·70	18·39	19·54	0	2					
July	20·19	19·03	19·61	0	2					
August	21·45	18·89	20·17	0	2					
September	20·45	19·92	20·18	0	2					
October	20·86	19·35	20·10	0	2					
November	22·92	20·58	21·75	0	2					
December	19·77	19·02	19·39	0	2					
January	19·60	18·43	19·01	0	2					
February	18·79	18·17	18·48	0	2					
March	19·45	17·96	18·70	0	2					
				0	24					

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the Year ended March 31, 1913.

Average per 100 Grains of Gas			Sulphuretted Hydrogen				Remarks.
Highest	Lowest	Average	Grains	Grains	Grains	Grains	
Grains.	Grains.	Grains.	Grains	Grains	Grains	Grains	
			5	0	5		
			5	0	5		
			10	0	10		
			5	0	5		
			10	0	10		
			5	0	5		
			5	0	5		
			10	0	10		
			5	0	5		
			5	0	5		
			10	0	10		
			104	0	104		
			1	0	1		
			1	0	1		
			3	0	3		
			2	0	2		
			6	1	7		
			4	0	4		
			9	1	10		
			6	1	7		
			1	0	1		
			2	0	2		
			10	0	10		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			0	1	1		
			11	1	12		
			9	0	9		
			9	0	9		
			9	0	9		
			9	0	9		
			9	0	9		
			9	0	9		
			9	0	9		
			9	0	9		
			9	0	9		
			24	0	24		

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance— 35 Grains.				
	Highest	Lowest.	Average	No. of times below stan- dard.	No. of Tests	Highest	Lowest.	Average	No. of times of in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Windsor—										
April										
May										
June										
July.										
August										
September										
October.										
November.										
December.										
January										
February										
March.										
Napanee -										
April.			18·23	0	1					
May			19·90	0	1					
June			19·40	0	1					
July.			18·90	0	1					
August										
September			14·35	0	1					
October.										
November.										
December.										
January										
February										
March.										
Ottawa—				0	5					
April.	16·29	15·55	15·98	4	8	14·39	14·11	14·25	0	2
May	16·25	15·82	16·02	3	8	14·54	14·39	14·46	0	2
June.	16·33	15·86	16·09	1	10	14·59	14·47	14·53	0	2
July	16·28	15·85	16·16	1	8	14·64	14·36	14·50	0	2
August	16·31	15·83	16·06	3	8	14·81	14·71	14·76	0	2
September	16·29	15·68	15·99	5	10	14·41	14·30	14·35	0	2
October.	16·24	15·86	16·04	3	8	14·97	14·37	14·60	0	2
November.	16·27	15·82	16·05	3	8	14·70	14·01	14·35	0	2
December.	16·33	15·55	16·08	1	10	14·93	14·38	14·65	0	2
January.	16·31	15·76	16·06	3	8	14·52	14·36	14·44	0	2
February	16·29	15·89	16·05	3	8	14·39	14·19	14·29	0	2
March.	16·27	15·82	16·02	4	10	14·81	14·47	14·64	0	2
Owen Sound—				34	104				0	24
April			16·66	0	1					
May			17·00	0	1					
June			16·27	0	1					
July			16·40	0	1					
August			16·10	0	1					
September			16·26	0	1					
October			16·65	0	1					
November			16·33	0	1					
December			16·61	0	1					
January			16·05	0	1					
February			16·30	0	1					
March.			16·25	0	1					
				0	12					

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the Year ended March 31, 1913.

Ammonia per 100 Cubic Feet. Allowance 4 Grains.					Sulphuretted Hydrogen.			Remarks
Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests	No. of times absent.	No. of times present.	No. of tests	
Grains.	Grains.	Grains.						
					1	3	4	
					1	4	5	
					1	1	2	
					2	2	4	
					2	3	5	
					2	2	4	
					1	4	5	
					0	5	5	
					0	4	4	
					0	4	4	
					0	4	4	
					0	5	5	
					13	41	54	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					0	1	1	
								Inspector on leave of absence.
								No tests made for October.
								"
								"
					4	1	5	
2.27	2.15	2.21	0	2	8	0	8	
2.40	2.30	2.35	0	2	8	0	8	
2.26	1.91	2.08	0	2	15	0	15	
2.14	1.27	1.70	0	2	8	0	8	
2.13	1.87	2.00	0	2	7	0	7	
1.91	1.25	1.58	0	2	10	0	10	
2.27	1.98	2.12	0	2	8	0	8	
2.21	1.16	1.68	0	2	8	0	8	
2.40	1.09	1.74	0	2	10	0	10	
2.25	1.27	1.76	0	2	8	0	8	
2.40	2.17	2.28	0	2	8	0	8	
2.26	2.24	2.25	0	2	8	0	8	
			0	21	102	0	102	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	

APPENDIX

RETURN of Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Peterborough—										
April	18·60	18·40	18·50	0	2					
May	19·20	19·00	19·10	0	2					
June	20·00	19·60	19·80	0	2					
July	19·80	19·60	19·70	0	2					
August	20·00	20·00	20·00	0	2					
September ..	20·20	19·60	19·90	0	2					
October	19·20	19·00	19·10	0	2					
November	19·10	19·00	19·05	0	2					
December	20·00	19·50	19·75	0	2					
January	19·00	18·40	18·70	0	2					
February	18·80	18·40	18·60	0	2					
March	18·80	18·20	18·50	0	2					
				0	24					
Sarnia—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Stratford—										
April			16·70	0	1					
May			17·09	0	1					
June			18·02	0	1					
July			18·90	0	1					
August			18·03	0	1					
September ..			16·98	0	1					
October			18·01	0	1					
November			17·87	0	1					
December			19·00	0	1					
January			17·77	0	1					
February			17·12	0	1					
March			17·38	0	1					
				0	12					
Toronto—										
April	17·29	16·50	16·79	0	10	13·89	13·39	13·64	0	2
May	17·36	16·49	16·92	0	8	16·75	14·88	15·81	0	2
June	17·38	16·32	16·85	0	8	14·82	14·60	14·71	0	2
July	17·57	16·06	16·85	0	10	15·54	14·22	14·88	0	2
August	17·67	16·49	16·98	0	8	14·47	12·70	13·58	0	2
September ..	17·38	16·40	16·86	0	10	20·83	17·56	19·19	0	2
October	17·46	16·63	16·94	0	8			17·51	0	1
November	17·15	16·45	16·82	0	8	20·24	17·42	18·83	0	2
December	17·15	16·49	16·88	0	10	16·91	14·81	15·86	0	2
January	18·82	16·46	17·51	0	8	19·46	14·85	17·15	0	2
February	18·72	17·89	18·25	0	8	24·27	19·02	21·64	0	2
March	18·64	17·56	18·03	0	10	20·93	20·92	20·92	0	2
				0	106				0	23

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Woodstock—										
April			17.00	0	1					
May			17.04	0	1					
June			17.41	0	1					
July			17.11	0	1					
August			17.38	0	1					
September			17.07	0	1					
October			17.34	0	1					
November			17.78	0	1					
December			17.05	0	1					
January			17.19	0	1					
February			17.34	0	1					
March			17.51	0	1					
				0	12					
Montreal—										
April	16.65	16.28	16.51	0	9	2.69	2.61	2.65	0	2
May	17.00	16.20	16.48	0	9	3.24	2.93	3.08	0	2
June	18.53	16.24	17.12	0	8	3.10	2.37	2.73	0	2
July	17.79	16.14	17.13	0	9	3.89	2.88	3.38	0	2
August	18.24	16.41	17.39	0	9	2.22	1.98	2.10	0	2
September	17.89	17.15	17.48	0	8	2.47	1.95	2.21	0	2
October	17.96	16.42	17.08	0	9	3.09	2.50	2.79	0	2
November	17.63	16.51	17.04	0	9	2.81	1.92	2.36	0	2
December	18.78	16.63	17.20	0	9	1.87	1.69	1.78	0	2
January	17.25	16.22	16.75	0	9	2.79	1.80	2.29	0	2
February	17.95	16.17	17.15	0	8	13.64	13.64	13.64	0	2
March	17.43	16.50	16.94	0	8	15.55	15.09	15.32	0	2
				0	104				0	24
Quebec—										
April	17.84	17.26	17.55	0	2	17.91	16.62	17.26	0	2
May	17.66	17.24	17.45	0	2	20.58	15.62	18.10	0	2
June	17.88	17.32	17.60	0	2	17.75	15.47	16.61	0	2
July	17.98	17.10	17.54	0	2	20.29	14.07	17.18	0	2
August	18.06	17.79	17.92	0	2	21.02	18.38	19.70	0	2
September	17.82	17.69	17.75	0	2	19.33	15.74	17.53	0	2
October										
November										
December										
January										
February						18.68	14.33	16.50	0	2
March						19.99	16.99	18.49	0	2
				0	12				0	16
Sherbrooke—										
April										
May										
June										
July										
August										
September										
October			28.58	0	1					
November			31.76	0	1					
December			24.64	0	1					
January			25.78	0	1					
February			26.74	0	1					
March			35.56	0	1					
				0	6					

F—Continued..

Inspected during the Year ended March 31, 1913.

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains		
Halifax—										
April.			17.58	0	1			16.47	0	1
May			17.55	0	1			13.33	0	1
June.			17.08	0	1			8.19	0	1
July.			16.90	0	1			12.67	0	1
August			17.09	0	1			12.60	0	1
September.			17.15	0	1			14.59	0	1
October.			16.58	0	1			12.70	0	1
November.			16.91	0	1			11.87	0	1
December			17.00	0	1			5.49	0	1
January.			17.48	0	1			17.70	0	1
February.			17.45	0	1			8.92	0	1
March			16.46	0	1			9.70	0	1
				0	12				0	12
Yarmouth										
April.			15.78	1	1					
May			15.12	1	1					
June.			15.80	1	1					
July.			17.00	0	1					
August.			17.12	0	1					
September.			17.25	0	1					
October.			15.82	1	1					
November.			15.85	1	1					
December			17.07	0	1					
January.			17.30	0	1					
February.			17.16	0	1					
March			17.32	0	1					
				5	12					
Charlottetown -										
April.	16.02	14.60	15.31	2	3					
May.			19.97	0	1					
June.			18.94	0	1					
July.			17.00	0	1					
August.			15.51	1	1					
September			15.53	1	1					
October.			16.00	0	1					
November.			14.26	1	1					
December	15.80	14.06	14.93	2	2					
January.			15.87	0	1					
February.			16.04	0	1					
March			14.48	1	1					
				8	15					
Winnipeg										
April	17.20	15.43	16.39	3	8					
May	16.20	17.77	15.45	4	10					
June	18.38	15.56	16.59	1	8					
July	16.27	14.60	15.52	6	8					
August.	18.63	15.12	16.67	3	10					
September.	17.90	15.16	16.67	1	8					
October	19.58	16.20	17.42	0	10					
November.	17.75	15.47	16.95	1	8					
December	19.36	16.40	17.07	0	8					
January	16.46	12.81	13.98	9	10					
February	14.80	12.50	14.09	8	8					
March	15.04	11.45	13.55	8	8					
				44	104					

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F—Continued.

Inspected during the Year ended March 31, 1913.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest	Average	Times in ex- cess of al- lowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					0	3	3	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	3	15	
					x	0	x	
					10	0	10	
					x	0	x	
					x	0	x	
					10	0	10	
					x	0	x	
					10	0	10	
					x	0	x	
					x	0	x	
					10	0	10	
					x	0	x	
					x	0	x	
					104	0	104	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Calgary—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Nanaimo -										
April			16·91	0	1					
May			17·00	0	1					
June			16·20	0	1					
July			18·01	0	1					
August			16·61	0	1					
September			17·49	0	1					
October			16·46	0	1					
November			16·27	0	1					
December			16·19	0	1					
January			16·12	0	1					
February			17·70	0	1					
March			16·74	0	1					
				0	12					
New Westminster—										
April			18·71	0	1					
May			18·54	0	1					
June			18·63	0	1					
July			18·51	0	1					
August			18·71	0	1					
September			18·46	0	1					
October			18·34	0	1					
November			18·51	0	1					
December			18·64	0	1					
January			22·80	0	1					
February			22·50	0	1					
March			21·57	0	1					
				0	12					
Vancouver—										
April	17·80	15·30	16·46	3	8					
May	17·80	12·12	15·95	3	10					
June	16·90	16·00	16·47	0	8					
July	17·90	15·70	16·86	1	8					
August	16·74	16·54	16·54	0	2					
September										
October										
November										
December										
January										
February	15·13	13·47	14·53	8	8					
March	19·40	15·30	16·49	2	8					
				17	52					

SESSIONAL PAPER No. 13

F.—Continued.

Inspected during the Year ended March 31, 1913.

Ammonia per 100 Cubic Feet. Allowance 1 Grain.			Sulphuretted Hydrogen.			Remarks
Highest Grains	Lowest Grains	Average Grains	$\frac{1}{2}$ 1 1 1/2 2	$\frac{1}{2}$ 1 1 1/2 2	$\frac{1}{2}$ 1 1 1/2 2	
						No apparatus to date for testing gas.
				1	1	2
				0	0	0
				2	0	2
				1	0	0
				1	0	0
				2	0	0
				2	0	0
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				12	0	12
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				1	0	1
				12	0	12
				x	0	x
				16	0	16
				x	0	x
				x	0	x
				12	0	12
				4	0	4
				5	0	5
				4	0	4
				4	0	4
				3	0	3
				x	0	x
				x	0	x
				74	0	74

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—4 Grains.				
	Highest	Lowest.	Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Victoria -										
April	15·93	15·51	15·72	2	2					
May...			17·38	0	1					
June			16·07	0	1					
July.	16·20	15·94	16·07	1	2					
August...			Nil.							
September...	16·00	15·59	15·79	1	2					
October										
November.										
December.										
January.										
February										
March										
				4	8					

INLAND REVENUE DEPARTMENT,
OTTAWA, June, 1, 1913.

APPENDIX G.

STATEMENT showing the number of Gas Meters Presented for Verification, Verified, Rejected and Verified after first Rejection, for the Fiscal Year ended March 31, 1913.

Districts.	Presented for Verification.	Kind.		Verified as coming within the error tolerated by law.			Rejected.			Verified after first Rejection.			Totals.	
		Wet.	Dry.	Correct.	Fast.	Slow.	Unsound.	Fast.	Slow.	Correct.	Fast.	Slow.	Verified.	Rejected.
Barrie.....	147		147	21	47	61	1	7	1	1	5	3	138	9
Belleville..	169		169	70	35	64							169	
Berlin.....	738		738	89	98	517	3	9	22				704	34
Brockville..	92		92	56	4	32							92	
Cobourg.....	168		168	8	60	96			4				164	4
Cornwall.....	95		95	26	10	43	2	1	13				79	15
Guelph.....	748		748		129	583	4	20	4		2	6	720	28
Hamilton.....	9,912		9,912	1,511	1,525	6,874		2					9,910	2
Kingston.....	482		482	156	17	307			1	1			481	1
Listowel.....														
London.....	4,009		4,009	888	792	2,261		58	10				3,941	68
Napanee.....														
Ottawa.....	1,808		1,808	425	464	918		1					1,807	1
Owen Sound.....	219		219	163	7	10				37		2	219	
Peterborough.....	334		334	80	34	220							334	
Sarnia.....	514		514	356	13	143		1	1				512	2
Stratford.....	81		81	15	17	45	2	2					77	4
Toronto.....	23,215		23,215	5,581	4,278	13,237		76	43				23,096	119
Woodstock.....	348		348	20	104	224							348	
Montreal.....	27,002		27,002	3,365	9,423	13,721	108	283	102				26,509	493
Quebec.....	834		834	303	79	452							834	
Sherbrooke.....	190		190	94	39	57							190	
St. Hyacinthe.....	110		110	77	18	15							110	
Fredericton.....														
St. John.....	1,339		1,339	737	24	577			1				1,338	1
Halifax.....	186		186	124	18	43			1				185	1
Charlottetown.....	21		21	2	4	11	3	1					17	4
Winnipeg.....	3,595		3,595	1,610	659	1,326							3,595	
Calgary.....	6,992		6,992	594	764	5,613	2	18				1	6,972	20
Nanaimo.....	132		132	74	11	47							132	
New Westminster.....	76		76	17	15	44							76	
Vancouver.....	3,770		3,770	1,087	999	1,593		42	32	6	3	8	3,696	74
Victoria.....	910		910	241	283	386							910	
Totals.....	88,236		88,236	17,790	19,970	49,520	125	521	235	45	16	20	87,355	881

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 13

APPENDIX H.

STATEMENT of Electric Light Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Districts.	Inspectors and Associates.	Expenditures.					Revenues.	
		Salaries.	Special	Rent	Lighting	Sundries.	Total	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Edmonton.	Fraser, H.	1,000 00	20 00		44 00	17 17	1,081 17	1,888 90
Fort William.	Johnston, C. W. I.	240 00	2 00		87 65	49 51	384 32	64 20
Hamilton.	Lutz, H.		200 00		228 10	195 53	673 88	4,339 05
Leeds.	Nash, A. F.		62 49		371 90	37 00	471 74	2,315 80
Ottawa.	Roche, H. G.				681 80		681 80	3,772 55
Toronto.	Street, J. L.				947 45	53 74	1,001 19	14,145 60
	<i>Total</i>	1,281 41	284 74		2,751 20	305 41	4,720 60	27,830 10
Montreal.	Aubin, A.		1,056 91		72 45	36 53	1,165 89	9,785 30
Quebec.	LeVasseur, N.		60 00	100 00	23 90	50 00	495 21	781 80
Sherbrooke....	Simpson, A. F.				143 41	17 40	162 81	502 10
St. Hyacinthe.	Provost, I. E.	600 00			91 50	1 00	393 40	258 75
Three Rivers..	Rochette, C. W.	600 00		120 00	100 00	15 02	735 02	147 90
	<i>Total</i>	800 00	1,116 91	281 25	431 26	322 96	2,952 38	11,475 85
St. John, N.B.	Wilson, J. E.				202 00	21 15	223 15	1,227 75
Halifax, N.S..	Thompson, J.		25 00		400 74	80 28	531 12	1,679 70
Charlottetown, P.E.I.	Bell, J. H.		60 00		30 40	45 32	135 72	115 35
Winnipeg, Man.	Hamilton, R.		2,135 26	325 00	571 60	196 02	3,227 88	12,250 00
Regina, Sask..	Hunter, W. M.	1,300 00			1,151 40	408 07	2,903 42	2,274 90
Calgary.	Kyle, W. P.	1,800 00	22 00		280 80	110 87	2,213 67	3,855 00
Edmonton.	Jones, Bruce.	1,500 00			154 55	94 84	1,749 39	2,208 35
	Roe, E. A.							
	<i>Alberta....</i>	3,300 00	22 00		435 35	205 71	3,963 06	6,641 90
Vancouver	Starr, J.							
	Templeton, W. A.	1,200 00	80 00		800 10	205 40	6,248 47	9,096 30
	Power, O. S.							
	Scotler, G. T.							
Vancouver.	Dresser, F.		17 00		104 00	38 45	159 45	2,241 45
	<i>Total</i>	1,000 92	866 96		1,077 10	433 94	6,407 92	11,357 75
Dawson, Yukon.....	McDonald, J. F.	500 00						500 00
Chief Electric Engineer.			313 00		140 87	838 39	1,292 26	
Inspector, Eastern Dominion.		2,474 98			186 85		2,661 83	
Inspector, Western Dominion.		2,474 98			628 35	363 43	3,466 76	
Kinsman, E. A.		331 15					331 15	

APPENDIX H—*Concluded.*

STATEMENT of Electric Light Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Districts.	Inspectors and Assistants.	Expenditures.						Revenues.
		Salaries.	Special Assistance	Rent.	Travelling Expenses.	Sundries.	Total.	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
General Con- tingencies...						8,700 97	8,700 97	
Printing						223 68	223 68	
Stationery						246 47	246 47	
International Electro-tech nical Com- mission.....						*244 16	244 16	
Grand Totals..		17,162 44	4,853 87	606 25	7,309 52	12,780 80	42,712 88	74,833 80

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 13

APPENDIX I.

STATEMENT showing the number of Electric Meters Presented for Verification, Verified, Rejected and Verified after first Rejection, for the fiscal year ended March 31, 1913.

Districts.	Presented for Verification	Verified as coming within the error tolerated by law.			Rejected			Verified after first Rejection.			Totals.	
		Correct.	Fast.	Slow.	Unsound.	Fast.	Slow.	Correct.	Fast.	Slow.	Verified.	Rejected.
Bellefleur	1,005	1,625	826	611			1				3,002	1
Fort William.	111	38	31	42							111	
Hamilton ...	7,091	4,149	1,198	1,752			1				7,090	1
Leamington	1,180	1,838	1,827	1,505	1	4	5				5,170	10
Ottawa	6,112	764	3,276	1,691	5	4	10				6,095	17
Toronto	21,448	10,358	3,000	5,162		4	11	2	1	1	21,443	15
Montreal	16,100	12,592	2,276	1,278							16,130	
Quebec	1,306	1,108	20	111			2	2			1,301	2
Shedden	806	194	219	287							800	
St. Hyacinthe.	395	127	197	71							395	
Three Rivers..	24	187	8								245	
St. John	2,000	761	798	448		7	6				2,007	13
Halifax.....	2,702	1,658	803	215	68	1	7				2,676	76
Charlottetown.	102	70	30	60	3						100	3
Winnipeg	11,270	4,497	2,834	4,941	2	1	2		2		19,274	
Regina..	7,708	1,496	1,663			7	7				3,719	19
Calgary	6,205	1,668	3,155	1,432		6	1	2		1	6,258	7
Edmonton	4,000	1,708	2,555	242							4,505	
Vancouver	11,194	7,400	7,212	1,757	1	12	5			1	14,396	18
Victoria	3,536	1,756	1,318	462		1	1				3,535	2
Total	118,600	52,229	43,552	26,788	118	45	59	7	3	3	118,400	189

W. H. HEMSWORTH,

Deputy Minister.

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1913.

APPENDIX J.

STATEMENT showing Amount of Electrical Energy, Gas or Fluid generated or produced for Export and for Consumption in Canada, under the Authority of the Electricity and Fluid Exportation Act, for the Year ending March 31, 1913.

Name of Contractor and Place of Business.	Month.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.	
		K. W. Hours.	H.P. Years.	K. W. Hours.	H.P. Years.	K. W. Hours.	H.P. Years.
Ontario & Minnesota Power Co., Ltd.—Fort Frances, Ont.	1912.						
	April	1,599,870	244·83	79,890	12·25	1,679,760	257·08
	May	1,699,820	260·11	66,953	10·25	1,766,773	270·36
	June	1,609,220	246·25	58,173	8·90	1,667,393	255·15
	July	1,678,650	256·87	122,295	18·71	1,800,945	275·58
	August	1,835,260	280·84	138,138	21·14	1,973,398	301·98
	September	1,748,020	267·49	100,420	15·37	1,848,440	282·86
	October	1,914,300	292·93	113,998	17·44	2,028,298	310·37
	November	1,858,730	299·73	105,102	16·08	1,963,832	315·81
	December	1,844,000	282·18	80,830	12·37	1,924,830	294·55
	1913.						
	January	1,951,950	298·69	74,543	11·41	2,026,493	310·10
	February	1,715,050	262·42	64,376	9·85	1,779,426	272·27
March	1,778,650	341·86	89,795	13·74	1,868,445	355·60	
Totals	21,233,520	3,334·20	1,094,513	167·51	22,328,033	3,501·71	
Canadian Niagara Pow- er Co.—Niagara Falls, Ont.	1912.						
	April	27,668,710	4,233·95	1,077,290	164·85	28,746,000	4,398·80
	May	27,136,330	4,152·49	876,670	134·15	28,013,000	4,286·64
	June	26,209,800	4,010·71	520,260	79·60	26,730,000	4,090·31
	July	26,897,890	4,116·00	522,110	79·90	27,420,000	4,195·90
	August	26,171,310	4,004·82	923,690	141·34	27,095,000	4,146·16
	September	25,917,620	3,965·99	809,380	123·86	26,727,000	4,089·85
	October	28,248,330	4,321·65	802,670	123·83	29,051,000	4,445·48
	November	26,948,602	4,123·76	1,014,648	155·26	27,963,250	4,279·02
	December	27,242,730	4,168·77	926,270	141·74	28,169,000	4,310·51
	1913.						
	January	27,623,300	4,227·00	1,174,700	179·76	28,798,000	4,406·76
	February	24,898,120	3,809·99	1,151,880	176·26	26,050,000	3,986·25
March	30,813,100	4,715·12	1,187,480	181·69	32,000,580	4,896·81	
Totals	325,775,842	49,850·25	10,986,988	1,682·24	336,762,830	51,532·49	
Ontario Power Co. of Niagara Falls, Ont.	1912.						
	April	19,147,828	2,930·06	20,846,772	3,190·04	39,994,600	6,120·10
	May	18,236,327	2,790·57	19,146,173	2,929·82	37,382,500	5,720·39
	June	18,649,309	2,853·71	17,776,691	2,720·31	36,426,000	5,574·02
	July	20,432,174	3,127·60	21,295,026	3,257·53	41,727,200	6,385·13
	August	21,621,672	3,308·62	22,228,728	3,401·51	43,850,400	6,710·13
	September	20,291,237	3,105·03	22,455,313	3,436·20	42,746,550	6,541·23
	October	22,339,396	3,418·44	25,850,204	3,955·68	48,189,600	7,374·12
	November	21,729,341	3,325·09	26,593,659	3,969·45	48,323,000	7,394·54
	December	23,016,906	3,522·12	27,319,902	4,180·58	50,336,808	7,702·70
	1913.						
	January	22,882,158	3,501·50	28,190,942	4,314·17	51,073,100	7,815·67
	February	22,062,994	3,376·15	24,861,406	3,804·37	46,924,400	7,180·52
March	23,877,238	3,653·77	28,384,162	4,343·43	52,261,400	7,997·20	
Totals	254,286,580	38,912·66	284,950,978	43,503·09	539,237,558	82,515·75	

SESSIONAL PAPER No. 13

APPENDIX J.—Continued.

STATEMENT showing amount of Electrical Energy, Gas, or Fluid generated or produced for export and for consumption in Canada, under the authority of the Electricity and Fluid Exportation Act, for the year ending March 31, 1913.

Name of Contractor and Place of Business.	Month.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.	
		K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.
Electrical Development Co., of Ontario, Niagara Falls, Ont.	1912.						
	April	3,096,800	473·88	12,085,090	1,849·30	15,181,890	2,323·18
	May	2,399,700	367·21	11,998,007	1,835·97	14,397,707	2,203·18
	June	2,403,400	367·78	11,195,458	1,713·16	13,598,858	2,080·94
	July	2,343,100	358·55	11,281,168	1,726·28	13,624,268	2,084·83
	August	2,177,500	333·21	11,940,718	1,827·21	14,118,218	2,160·42
	September ..	2,539,400	388·59	12,111,045	1,853·27	14,650,445	2,241·86
	October	4,800,800	734·63	13,102,587	2,005·00	17,903,387	2,739·63
	November ..	6,541,100	1,000·94	13,918,941	2,129·92	20,460,041	3,130·86
	December ..	7,787,100	1,191·61	15,465,796	2,366·63	23,252,896	3,558·24
	1913.						
	January	8,148,800	1,246·96	14,986,390	2,293·26	23,135,190	3,540·22
	February	8,750,500	1,339·03	13,984,588	2,139·97	22,735,088	3,479·00
	March	4,046,000	619·12	13,703,420	2,097·42	17,749,420	2,716·54
	Totals ..	55,034,200	8,421·51	155,773,208	23,837·39	210,807,408	32,258·90
Maine and New Brunswick Electrical Power Co., Aroostook Falls, N.B.	1912.						
	April	165,434	25·32	4,266	·65	169,700	25·97
	May	160,149	24·51	3,951	·60	164,100	25·11
	June	167,300	25·60	3,561	·54	170,861	26·14
	July	172,600	26·41	3,551	·54	176,151	26·95
	August	156,600	23·96	4,303	·66	160,903	24·62
	September ..	175,500	26·86	4,509	·69	180,009	27·55
	October	219,300	33·56	5,674	·87	224,974	34·43
	November ..	246,500	37·72	7,156	1·10	253,656	38·82
	December ..	244,800	37·46	7,695	1·18	252,495	38·64
	1913.						
	January	233,520	35·73	7,180	1·10	240,700	36·83
	February	210,743	32·25	5,557	·85	216,300	33·10
	March	219,000	33·51	5,667	·87	224,667	34·38
	Totals ..	2,371,446	362·89	63,070	9·65	2,434,516	372·54
British Columbia Electric Railway Co., Vancouver, B.C.	1912.						
	April	15,480	2·37	8,600,409	1,316·06	8,615,889	1,318·43
	May	15,308	2·34	8,878,125	1,358·56	8,893,433	1,361·00
	June	13,930	2·13	8,390,342	1,270·14	8,314,272	1,272·27
	July	15,520	2·37	8,980,839	1,376·28	8,996,359	1,376·65
	August	22,590	3·46	9,556,223	1,455·61	9,578,813	1,459·07
	September ..	20,730	3·17	9,536,690	1,459·34	9,557,420	1,462·51
	October	26,240	4·02	10,927,108	1,671·10	10,953,348	1,675·12
	November ..	33,905	5·08	11,208,285	1,715·13	11,241,490	1,720·21
	December ..	33,900	5·19	11,712,100	1,792·22	11,746,000	1,797·41
	1913.						
	January	33,440	5·12	11,746,992	1,797·56	11,780,432	1,802·68
	February	26,020	3·98	10,383,391	1,588·90	10,409,411	1,592·88
	March	26,020	3·98	10,958,684	1,676·93	10,984,704	1,680·91
	Totals ..	282,383	43·21	120,789,188	18,477·83	121,071,571	18,519·14

APPENDIX J.—Continued.

STATEMENT showing amount of Electrical Energy, Gas, or Fluid generated or produced for export and for consumption in Canada, under the authority of the Electricity and Fluid Exportation Act, for the year ending March 31, 1913.

Name of Contractor and place of Business.	Month.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.	
		K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.
Western Canada Power Co., Ltd., Vancouver, B.C.	1912.						
	April	8,544	1·31	904,431	138·40	912,975	139·71
	May	12,984	1·99	1,311,561	200·70	1,324,545	202·69
	June	13,920	2·13	1,573,010	240·71	1,586,930	242·84
	July	8,112	1·24	1,614,257	247·02	1,622,369	248·26
	August	6,192	0·95	1,842,926	282·02	1,849,118	282·97
	September . .	100,000	15·30	1,841,951	281·96	1,941,951	297·26
	October	100,000	15·30	2,017,009	308·65	2,117,009	325·95
	November . .	100,000	15·30	1,723,725	263·77	1,823,725	279·07
	December . .	100,000	15·30	1,811,065	277·13	1,911,065	292·43
	1913.						
	January. . .	431,975	66·10	1,155,218	177·00	1,587,193	243·90
	February. . .	773,370	118·34	1,051,805	160·95	1,835,175	279·29
	March. . . .	1,604,596	245·54	1,344,604	205·76	2,949,200	451·30
	Totals. .	3,259,693	498·80	18,191,562	2,784·87	21,461,255	3,285·67

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX K.

STATEMENT showing total amount of Electrical Energy expressed in Kilowatt Hours and Horse Power Years, Generated for Export and for Consumption in Canada, by the Hydro Electric Companies during the Fiscal Year ended March 31, 1913.

Name of Contractor.	Place of Business.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.	
		Kilowatt Hours.	Horse Power Years.	Kilowatt Hours.	Horse Power Years.	Kilowatt Hours.	Horse Power Years.
Ontario & Minnesota Power Co	Fort Frances, Ont.	21,233,520	3,334.20	1,094,513	167.51	22,328,033	3,501.71
Canadian Niagara Power Co.	Niagara Falls, Ont.	325,775,842	49,850.25	10,986,988	1,682.24	336,762,830	51,532.49
Electrical Development Co.	"	55,034,200	8,421.51	155,773,208	23,837.39	210,807,408	32,258.90
Ontario Power Co.	"	254,286,580	38,912.66	284,950,978	43,503.09	539,237,558	82,515.75
* Electrical Distributing Co.	Windsor, Ont.						
* Sherbrooke Ry. & Power Co	Sherbrooke, Que.						
Maine & New Brunswick Electric Power Co.	Aroostook Falls, N.B.	2,371,446	362.89	63,070	9.65	2,434,516	372.54
British Columbia Electric Ry. Co	Vancouver, B.C.	282,383	43.21	120,789,188	18,477.83	121,071,571	18,519.14
Western Canada Power Co.	"	3,259,693	498.80	18,191,562	2,784.87	21,461,255	3,285.67
* Cedars Rapids Power Co.	Soulanges, Que.						
Totals		662,243,664	101,423.52	591,849,507	90,462.58	1,254,103,171	191,986.20

* These companies have not yet commenced to export.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

